MS Patent Application Commissioner for Patents P.O.Box 1450 Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Inventor(s): Peiching Ling, Jianjun Zhang, Jinliang Chen, and Ming Xu

WARNING: Patent must be applied for in the name(s) of all the actual inventor(s). 37 CFR 1.41(a) and 1.53(b).

For (Title): WAVEGUIDE-GRATING-BASED WAVELENGTH-INTELLIGENT DEVICES

1. Type of Application

This new application is a(n) (check one applicable item below):

- X Original
- _ Design
- Plant

WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4) unless the International Application is being filed as a divisional, continuation or continuation-in part Application.

NOTE: If one of the following 3 items apply then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED.

- Divisional
- Continuation
- _Continuation-in-part (CIP)

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date October 9, 2003 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number ER276425218US addressed to the: Commissioner for Patents, P.O.Box 1450, Alexandria, VA 22313-1450.

Ching-lu Lin

(Type or print name of person mailing paper)

(Signature of person mailing paper)

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon to mailing. 37 CFR 1.10(b).

2. Benefit of Prior U.S. Application(s) (35 USC 120)

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-inpart of a parent case, or where the parent case is an International Application which designated the U.S., then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

 $\underline{\mathbf{X}}$ The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

| | CLI MINIED. |
|----|---|
| 2 | Papers Enclosed Which Are Required For Filing Date Under 37 CFR 1.53(b) |
| Э. | apels Election |
| (R | gular) or CFR 1.153 (Design) Application |
| 1- | 6 |

- 24 Pages of specification
- 7 Pages of claims
- 1 Pages of Abstract
- 12 Pages of Drawings
 - **X** formal
 - informal

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identify indicia such as the serial number, group and unit, title of the invention, attorney's docket number, inventor's name, number of sheets, etc., not to exceed 2 3/4 inches (7.0 cm.) in which may be placed in a centered location between the side edges within three fourths inch (19.1 mm.) of the top edge. Either this marking technique on the front of the drawing is acceptable." Proposed 37 CFR 1.84 (1). Notice of March 9, 1988 (1090 O.G. 57-62)

4. Additional papers enclosed

- Preliminary amendment
- Information Disclosure Statement
- _ Form PTO-1449
- _ Citations
- Declaration of Biological Deposit
- _ Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
- Authorization of Attorney(s) to Accept and Follow Instructions from Representative
- _ Special Comments
- Other

5. Declaration or oath

x Enclosed

executed by (check all applicable boxes)

X inventor(s).

- _ legal representative of inventor(s) . 37 CFR 1.42 or 1.43
- _ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached
 - $_$ this is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.

Not Enclosed.

WARNING: Where the filing is a completion in the U.S. of an International Application but where a declaration is not available or where the completion of the U.S. application contains subject matter in addition to the International Application the application may be treated as a continuation or continuation-in-part as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

_ Application is made by a person authorized under 37 CFR 1.41 (c) on behalf of all the above named inventor(s). The declaration or oath, along with the surcharge required by 37 CFR 1.16 (e) can be filed subsequently.

NOTE: It is important that all the correct inventor(s) are named for filing under 37 CFR 1.41 (c) and 1.53 (b).

6. Inventorship Statement

WARNING: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.

The inventorship for all the claims in this application are:

X The same

- _ Are not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made.
 - _ is submitted
 - _ will be submitted.

7. Language

NOTE: An application including a signed oath or declaration may be filed in a language other than English. A verified English translation of the non-English language application and the processing fee of \$30.00 required by 37 CFR 1.17(k) is required to be filed with the application or within such time as may be set by the Office. 37 CFR 1.5(d).

NOTE: A non-English oath or declaration in the form provided or approved by the PTO need not be translated. 37 CFR 1.69(b).

X English

- _ non-English
 - _ the attached translation is a verified translation. 37 CFR 1.52(d).

8. Assignment

 $\underline{\mathbf{X}}$ An assignment of the invention to <u>Integrated Optics Communication Corp.</u>

X is attached

_ will follow

NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment" Notice of May 4, 1990.

9. Certified Copy

Certified cop(ies) of application(s)

(filed) (appl.no.) (country)

from which priority is claimed

_ is (are) attached . A separate "ASSIGNMENT COVER LETTER ACCOMPANYING NEW PATENT APPLICATION" is also attached will follow.

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37CFR 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35USC120 is itself entitled to priority from a prior foreign application then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

10 Fee Calculation (37 CFR 1.16)

A X Regular application

| - | | IS AS FILED | D. C. Paris Fee | \$770.00 |
|---|---------------|-------------|-----------------|----------|
| Number filed | NunNun | nber Extra | Rate Basic Fee | \$770.00 |
| Total Claims 37 CFR 1.16(c) | 32-20 = 12 | x | \$18.00 | 216.00 |
| Independent Claims (37CFR 1.16(b)) | 4 -3 = 1 | x | \$86.00 | 86.00 |
| Multiple dependent clar (37 CFR 1.16(d)) | im(s), if any | | \$290.00 | 0.00 |

- _ Amendment Cancelling extra claims enclosed.
- _ Amendment deleting multiple-dependencies enclosed.
- Fee for extra claims is not being paid at this time.

note: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37CFR1.16(d).

> 1,072.00 Filing fee calculation

| B Design application | | | |
|--|-------------------------------------|---------------|----------------------|
| (\$310.00 - 37 CFR 1.16(f)) | | ¢ | |
| | Filing fee calculation | \$ | <u> </u> |
| C _ Plant application | | | |
| (\$510.00 - 37 CFR 1.16(g)) | | ¢ | 1 |
| | Filing fee calculation | Ψ | |
| 11. Small Entity Statement(s) | | andiber 111 | odor 37 CER |
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| 1.9 and 1.27 is (are) atta | ached. | | \$536.00 |
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| than all the inventors of | | | |
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| shandoned for failing to comp | plete the application pursualit was | 2) CLV 1" | D(u) and and, as |
| well as the changes to 37 CFR | 1.53 and 1.78, indicate that in ord | ier to obta | III the benefit of a |
| prior U.S. application, either t | he basic filing fee must be paid o | r me proc | essnig and |
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| 14. Method of Payment of Fees | | |
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| application to Account N | Io 12-0005 | |
| application to Account to $\underline{\mathbf{x}}$ 37 CFR 1.16(a), (f) or (g | (filing fees) | |
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| 37 CFR 1.16(e) (surcharge for fill | ng the basic filing fee and/or declaration | |
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| the minution should be ma | ade only with the knowledge didt. Subhibstore | |
| | inder 37 (F.K. 1.136(a) is to avail utiless a request | . 01 |
| petition for extension is file | ed." (Emphasis added). Notice of November 5, 19 | 185 |
| $(1060 \cap C 27)$ | | |
| _ 37 CFR 1.18 (issue fee at or be | fore mailing of Notice of Allowance, purs | duite |
| to 37 CFR 1.311(b)) | the factor of deposit account has been filed l | oefore |
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| Dog No 22 048 | SIGNATURE OF ATTORNEY | |
| Reg. No.33,948 | Bo-In Lin | |
| Tel. No. (650) 949-0418 | Type or print name of attorney | |
| P.O. Address : | 13445 Mandoli Drive, | |
| r.O. Address . | Los Altos Hills, CA 94022 | |
| | | |

\underline{X} Incorporation by reference of added pages

Check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR A NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

| $\underline{\mathbf{X}}$ Plus Added Pages For New Application Transmittal Where Benefit Of |
|---|
| Prior U.S. Application(s) Claimed |
| Number of pages added Four |
| Plus Added Pages For Papers Referred To In Item 4 Above |
| Number of pages added |
| Plus "Assignment Cover Letter Accompanying New Application" |
| Number of pages added |
| Statement Where No Further Pages Added (If no further pages form a part of this Transmittal then end this Transmittal with this page and check the following item) |
| _ This transmittal ends with this page |